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_	AC	4,594,691	06/10/86	Kimball et al.	367	32	03/27/84	l
	AD	4,718,027	01/05/88	Richardson et al.	364	554	10/28/85	5
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1/-	AL	6,061,633	05/09/00	Fukuhara et al.	702	6	01/31/97	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Compl t if Known Application Number 10/025,528 Filing Date December 18, 2001 First Named Inventor Joakim O. Blanch Art Unit 3663 Examiner Name Nelson Moskowitz

(Use as many sheets as necessary) Sheet

Substitute for form 1449A/PTO

Attorney Docket Number 1391-26800

Examiner	Cite		U. S. PA	TENT DOC	UMENTS		
Initials*	No.1	Document Number Number-Kind Code ^{2 (** known)}	Publication MM-DD-Y		Name of Patentee or pplicant of Cited Document	Pages, Columns, Lines, Wher Relevant Passages or Relevan Figures Appear	re nt
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Examiner **NELSON MOSKOWITZ** Date Signature Considered

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Translation is attached.

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Examiner	Cite	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	
Initials* No.1		the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<u> </u>		Alan Brie et al., "New Directions in Sonic Logging"; Spring 1998, (pp. 40-55); Oilfield Review	
		Batakrishna Mandal, "Shear wave Anistrophy from Single Dipose Source" (undated)	
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		G. Brewton, "The Geology of the Skinner, Bartlesville and Miesner Sandstones in Well DM21A At Catoosa"; Amoco publication, Nov. 1996	,
		B. A. Auld, "Acoustic Fields and Waves in Solids", Vol. I (pp. 68-423), A Wiley-Interscience Publication	
		K. Koster et al., "Dipole Shear Anistrophy Logging", Amoco Publication SL3.7 (pp. 1139-1142)	,
		"Faults and Faulting", EAS-A193 Class Notes, SLU (9 pp.)	
		"Seismic Waves and Earth's Interior", EAS-A193 Class Notes, SLU (13 pp.)	,
/		Dr. Daniel A. Ruselle, "Sound Fields Radiated by Simple Sources", Kettering University (4 pp.)	
M		N. Cheng et al., "Borehole Geophysics I: Well Logging; Decomposition and particle motion of acoustic dipole log in anistrophic formation: Earth Resources Lab MIT	,

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND SES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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STATEMENT BY APPLICANT		First Named Inventor	Joakim O. Blanch	_		
(Use as many sheets as necessary)				Art Unit	3663	-
				Examiner Name	Nelson Moskowitz	_
Sheet	3	of	3	Attorney Docket Number	1391-26800	7
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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
0		J.O. Blanch et al., "A Method to Extract Fast and Slow Shear Wave Velocities in an Anistropic Formation; SEG International Exposition and 72nd Annual Meeting, 10/11/02	,
5		P. Carrion et al., "Source wavelet and its angular spectrum from plane-wave seismograms", geophysics, Vol. 55, No. 8 (Aug. 1990), pp. 1026-2035	
J_		Chuen Hon Cheng et al., "Elastic wave propagation in a fluid-filled borehole and synthetic acoustic logs", Geophysics, Vol. 46, No. 7 (July 1981), pp. 1042-1053	-
v		L. Thomsen, "Reflection seismology over azimuthally anisotropic media:, Geophysics, Vol. 53, No. 3 (March 1988), pp. 304-313	,
			

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10/6 Page 1 of 2

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18 Stylesheet Version v18.0

> Title of Invention

Acoustic Logging Apparatus and Method

Application Number:

10/025528

10/025528

Confirmation Number:

6433

First Named Applicant:

Joakim Blanch

Attorney Docket Number: 139126800

Art Unit:

3663

Examiner:

Nelson Moskowitz

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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
2	1	4794572	1988-12-27	Sondergeld		367	31
	2	4803666	1989-02-07	Alford		<u></u>	
	3	4817061	1989-03-28	Alford et al.			
	4	4888743	1989-12-19	Thomsen			
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	6	4933913	1990-06-12	Thomsen			
	7	5027332	1991-06-25	Alford			
	8	5029146	1991-07-02	Alford			
	9	5136554	1992-08-04	Thomsen et al.			
	10	5214613	1993-05-25	Esmersoy			
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W	12	6098021	2000-08-01	Tang et al.
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	14	4789969	2008-12-06	Naville
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	19	5999486	1999-12-07	DeVault
Ø	20	5835452	1998-11-19	Mueller et al.

Signature

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Art Unit

INFORMATION DISCLOSURE

STATEMENT BY APPLICANT

Application Number 10/027,749 12/21/2001 First Named Inventor Joakim O. BLANCH

2862 **Examiner Name** Toan M. Le

(Use as many sheets as necessary)

One of Two Attorney Docket Number 1391-27201

Examiner	City	1		DOCUMENTS	
Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2 (d known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
~		^{US-} 006098021A	08-01-2000	Tang et al.	
\sim		^{US-} 005999486A	12-07-1999	DeVault	
V		^{US-} 005835452A	11-19-1998	Mueller et al.	
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		FORE	IGN PATENT DOCU	MENTS		
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

First Named Inventor

Art Unit

Joakim O. BLANCH

Art Unit

2862

Examiner Name Toan M. Le

Sheet Two of Two Attorney Docket Number 1391-27201

(Use as many sheets as necessary)

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
\sim		J.O. BLANCH, et al., A Method to Extract Fast and Slow Shear Wave Velocities in an Anisotropic Formation; SEG International Exposition and 72nd Annual Meeting, 10/11/02	
5		PHILLIP M. CARRION, et al., Source Wavelet and its Angular Spectrum from Plane-Wave Seismograms; Geophysics, Vol. 55, No. 8, (August 1990); pp. 1026-2035	
0	CHUEN HON CHENG, et al., Elastic Wave Propagation in a Fluid-Filled Borehole and Synthetic Acoustic Logs; Geophysics, Vol. 46, No. 7, (July 1981); pp. 1042-1053		
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